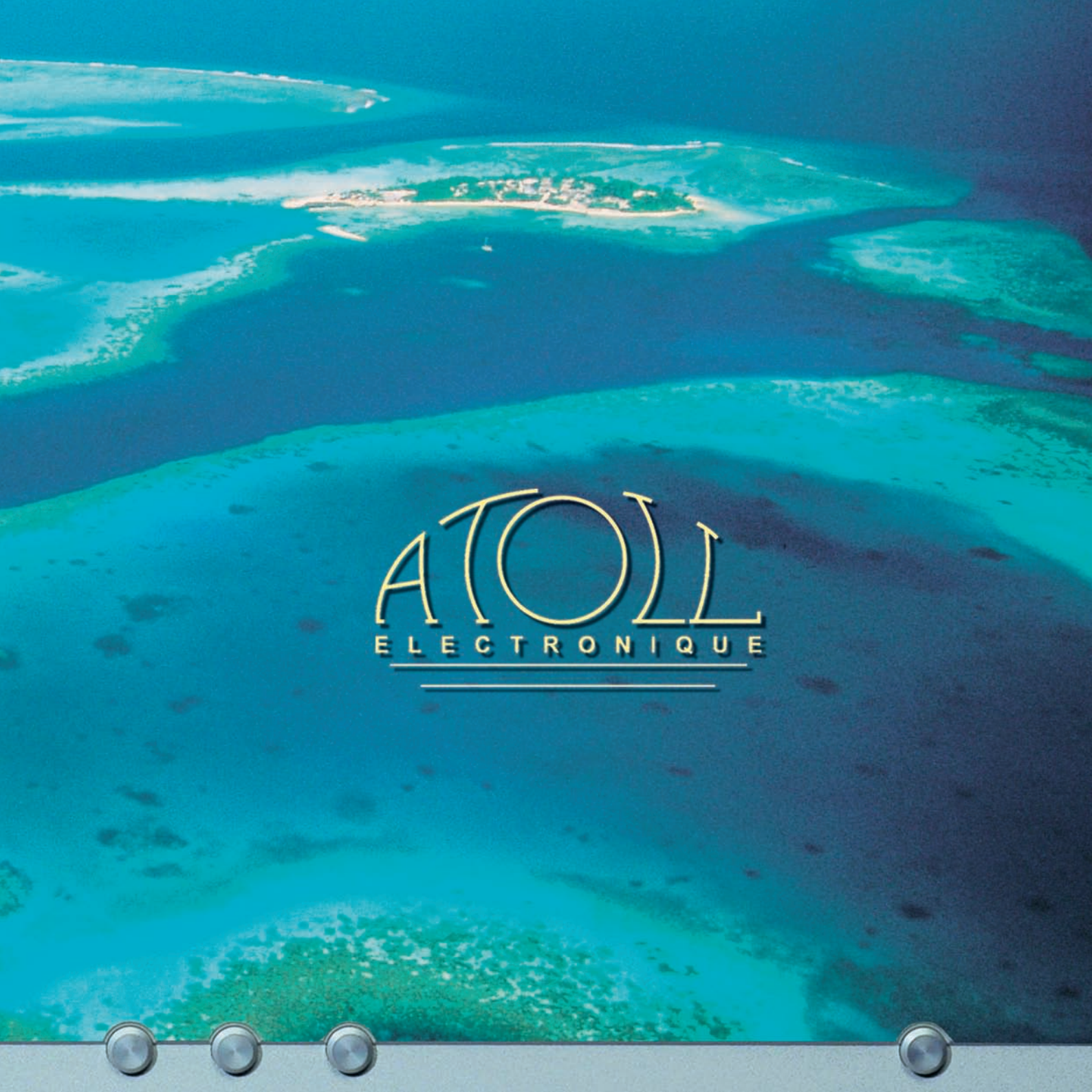

ATOLL
ELECTRONIQUE

PRESENTATION

HISTORY

ATOLL Company was founded in September 1997 by Stéphane & Emmanuel DUBREUIL. The market shows at this period that only few audiophiles products were affordable to main people. Specialised magazines and melomanes immediately accorded them a great audience and interest especially for best buy integrated IN80. Then were proposed CD Players & and FM Tuner. Developing those new electronics was based on same passion for musicality. Few years after, the line was completed with A/V products preamplifier/processor, 3/5 channels power amplifiers, and with a DVD-SACD Player.

Our main goal have always been to propose people the ability to have the most realistic listening music. To reach it, we always have to search for an exceptional musicality/price rate when we are thinking about new products. That's the reason why long listening and comparisons periods are mixed with tests & measurements of electrical stages and choice of important components.

CHOICES

- CONCEPTION: fully symmetrical stages with discrete components, double mono configuration, low feedback rate, audio short lenght path, star ground, internal protections;

- ELECTRONIC COMPONENTS: high-value Snap-In capacitors with low serial resistance, ALPS potentiometers, steel resistors, MOS-FET output transistors;

- MANUFACTURE: handmade implementation and soldering in our factory based in Brécey - France, assembling and manufacturing of all elements, tests with 4 phases of verifications, control, measurements and listening of each products before packaging;

- FORWARDERS: every specifics pieces such as front panel, chassis and boards are made in France. This offers reliable and regular quality, a good reactivity and a great flexibility of adaptation to any request;

CD PLAYER / USB / TUNER: CD30

- CD Player
- USB Input (Host)
- FM Tuner module (optional)

- Pure audio CD drive (CD, CD-R, CD-RW, MP3 ; CD text access)
- Wolfson converter: WM8729
- Symmetrical Output stages with discrete components
- Global ATOLL remote control
- USB Input (USB host):
  - Playback of media files in MP3 format (Hard disk, USB key, computer...)
  - Access to the tracks and chapters through the front panel and the remote control
- FM Tuner (optional)
  - 60 customizable presets
  - Automatic channel scan

INTEGRATED AMPLIFIER: IN30

- 4 Inputs (CD, Tuner, DVD, AUX)
- 1 Tape Input (or By-pass)
- 1 media player Input jack (3,5mm)
- 1 Headphones Output (3,5mm)
- 1 Preamp. Output

- 2X50 W_{RMS} / 8 ohms ; 2X70 W_{RMS} / 4 ohms
- Symmetrical Output stages with discrete components
- MOS-FET Transistors
- 170 VA toroïdal transformer
- 1.5mm steel chassis

Both IN30 & CD30 are available in black grey or lacquered finish.

REFERENCE SERIES: SOURCES

CD Players:

CD50SE

5 regulated supplies
Total of capacitors 14 000 µF

CD80SE

7 regulated supplies
Total of capacitors 17 000 µF

CD100SE

7 regulated supplies
160VA toroidal transformer
for audio output stages

All products in the Reference series are equipped with a 4mm aluminum brush front panel available in black or silver finish.

Technical details on the reference series CD players:

- pure CD drive (optimized for a significant reduction of the jitter) mounted on an anti-resonant chassis
- Wolfson converter (105dB dynamics and 105dB signal to noise ratio)
- Transformer specifically dedicated to audio stages
- Symmetrical outputs stages with discrete components polarized in A class
- MKT capacitors for audio links
- Separated supplies for analog and digital
- Gold plated audio and digital outputs (coaxial)
- Playback of CD, CD-R and MP3
- CD text
- Global ATOLL remote control.

FM TUNER: TU80

The TU80 high precision audiophile FM Tuner stands out because of its excellent musical articulation and the finesse of its timbres.

- 60 customizable presets
- Automatic channel scan

REFERENCE SERIES: AMPLIFICATION

Technical characteristics of integrated and preamp/amplifier couple from the Reference Series:

- Fully symmetrical stages with discrete components
- Motorized ALPS potentiometer
- By-Pass input (using the integrated as a power amplifier, easy integration into a home theater system)
- MKP technology link capacitors
- Selection of sources with hight quality relays dedicated to input selection
- MOS-FET power transistors
- Headphones jack output
- 5 Inputs + 1 By-pass
- All IN & PR are remote equipped

Internal view of the IN100SE

INTEGRATED:

IN50SE

2X50 W_{RMS} / 8 ohms
2X70 W_{RMS} / 4 ohms
Power supply: 170 VA

IN80SE

2X80 W_{RMS} / 8 ohms
2X120 W_{RMS} / 4 ohms
Power supply: 340 VA

IN100SE

2X100 W_{RMS} / 8 ohms
2X140 W_{RMS} / 4 ohms
Power supply: 670 VA

PREAMPLIFIERS:

PR100SE

Power supply: 170 VA
Total of capacitor: 15000 µF
By-pass Input

PR200SE

Power supply: 340 VA
Total of capacitor: 30000 µF
Rising time: 1,3 µs
By-pass Input

STEREO AMPLIFIERS:

AM50SE - AM80SE - AM100SE

Stereo amplifiers AM50SE, AM80SE, AM100SE agree in most HIFI or audio-video applications. Very scalable, they can be used alone or in bi-amplification. Moreover, all models can be bridged onto mono block.

PRESTIGE SERIES: SOURCES

The PRESTIGE range offers exceptional musical qualities bringing a large sound realism and a completely mastered sense of power.

It is distinguishable by a 8 mm aluminum front panel with dual processing: brushing and microbillage.

CD PLAYER: CD200SE

- Pure audio drive (optimized for a significant reduction of the jitter) mounted on an anti-resonant chassis
- 160VA Toroidal transformer specifically dedicated to Output audio stages
- 15VA transformer dedicated to digital stages
- 7 regulated supplies with one specifically dedicated for the converter
- BURR-BROWN converter PCM1794:
  - 24bits/192 kHz, oversampling 8x
  - 129 dB dynamic, signal/noise ratio of 129 dB
  - Differential current outputs
- Current/voltage converters with ATOLL designed bipolar transistors stages
- MKP technology capacitors (selected after listening tests)
- Output differential stages with discrete components polarized in A class
- CD text
- ATOLL global remote control

CD-SACD PLAYER: SACD200

- 160 VA toroidal Transformer for audio output stages
- 30 VA Transformer for logic, digital and video sections
- BURR-BROWN PCM converter 24bits/192 kHz
- Full discrete differential A-class output stages
- Audio class MKP capacitors
- Exclusively linear power supplies for all stages
- SONY optical drive
- SACD stereo and multichannel
- Balance, delay and bass management complete setup

Audio Outputs:
- Analog “6 channel”
- Down-mix 2 channel
- Digital (coaxial & optical)

PRESTIGE SERIES: AMPLIFICATION

Internal view of the IN200

Characteristics of IN200 and couple PR300/AM200

- Symmetrical Output stages with discrete components
- Double pair of MOS-FET transistors on each channel (IN200 & AM200)
- Complete settings (from the front panel or the remote control) of the balance and volume (IN200 & PR300)
- Direct access to inputs
- 5 Inputs (with 1 AUX. for optional Phono or digital board)
- By-pass input
- Headphones jack output

ATOLL global remote control compatible with all ATOLL products (preamp., Integrated, Tuner, CD players)

INTEGRATED: IN200

2X120 W_{RMS} / 8 ohms
2X200 W_{RMS} / 4 ohms
Double mono power supply: 2X330VA + 10VA

PREAMPLIFIER: PR300

Power supply: 340VA
Total of capacitors: 30 000 µF
Rising time: 1,3 µs

POWER AMPLIFIER: AM200

2X120 W_{RMS} / 8 ohms
2X200 W_{RMS} / 4 ohms
Double mono power supply: 2X330VA + 10VA
Possibility to bridge in mono bloc

AUDIO / VIDEO

DVD - CD - SACD PLAYER: DVD200

- 160 VA toroidal Transformer for audio output stages
- 30 VA Transformer for logic, digital and video sections
- BURR-BROWN converter PCM1796: 24bits/192 kHz (123 dB dynamic range, 123 dB signal to noise ratio)
- Full discrete differential A-class biased output stages.
- Audio class MKP capacitors
- Exclusively linear power supplies
- Stereo and multichannel SACD playback

Details about the product:

- Progressive Scan (PAL&NTSC)
- Faroudja DCDi de-interlacer
- Upscaling to 720p and 1080i
- HDMI v 1.1 output (HDCP encryption)
- Multi-channel audio
- Dolby Digital & DTS decoding
- Intuitive OSD setup
- Adjustable VFD display
- Remote control

Audio Outputs:
Analog “6 channel”
Down-mixed 2 channel
Digital (coax. & optical)

Video Outputs:
HDMI
S-Video
Composite
YUV

3 CHANNEL AMPLIFIERS

AV50 - AV80 - AV100

Combined with Stereo Integrated or amplifiers, 3 Channel power amplifiers, AV50, AV80 & AV100 are ideals for 5 channel audio-video systems.

5 CHANNEL POWER AMPLIFIER: AV500

While keeping essential musical quality components, the AV500 offers a more compact solution and stunning performance in 5 channel applications.

Connection of AV500:

- 5 RCA Inputs
- 5 RCA Outputs (used for bi-amp)
- 5 loudspeakers Outputs

AUDIO/VIDEO PREAMPLIFIER: PR5.1

Born from our experience in the field of sound reproduction, the PR5.1 gives you a realistic listening, precise and superbly musical. On the cutting edge of audio technology and equipped with multiple audio and video interconnect options, it fits perfectly into Hi-Fi and Home theater systems. As well, it stands out for ease of use and its unique quality/price ratio.

CHARACTERISTICS:

DOUBLE «6 CHANNEL» ANALOG INPUTS
REMOTE CONTROL
BALANCE COMPLETE ADJUSTMENT
SPECIFIC POWER SUPPLY FOR ANALOG CIRCUITS
OUTPUT STAGES WITH CLASS A POLARIZED DISCRETE COMPONENTS
OPTIONAL DSP BOARD COMPATIBLE DTS®/DOLBY-DIGITAL®/PROLOGIC II

Connection of PR5.1 :

4 audio (stereo) inputs:
- CD (+ 1 digital)
- TUNER
- TAPE (IN+OUT)
- AUX (or optional PHONO)

4 audio (stereo) inputs:
- DVD (6 channel + 1 digital)
- AV (+ 1 digital)
- VCR
- 6 channel input (for SACD i.e.)

3 video inputs (coax. & S-VIDEO)

1 output 5+1 (double outputs for front channels)
1 video output (coax. & S-VIDEO)
1 digital output

OPTIONAL DSP/PROCESSOR BOARD COMPATIBLE:

DTS 5.1 ; DOLBY-DIGITAL 5.1
DOLBY PROLOGIC II
MPEG 5.1 multichannel and stereo
- Auto detection of digital stream
- Delays setup, bass manager (Crossover filters)
- Bass setup (from 40 to 120 Hz)
- Stereo to multichannel transfer (using Prologic II®)
- « Small » or « Large » speakers configuration
- Complete setup from 2 up to 5 channels (with and without subwoofer)
- CRYSTAL DSP, BURR-BROWN converters 24 bits/96 kHz.

CONVERTER - DAC100

Technical specifications:

- 2 independent transformers (with one dedicated to analog audio)
- 7 regulated supplies
- D/A Converters: BURR BROWN PCM1796
- Output stages with discrete components without feedback
- MKP capacitors for audio links
- Accepted format for optical and coaxial inputs: 16-24bit (44,1kHz, 48kHz, 96kHz and 192kHz)
- Accepted format for the USB input: 16bits (32kHz, 44,1 kHz, 48kHz)
- Dimensions (L x l x h): 320x210x60 mm
- Available in black or silver finish

Connecting:

- 3 optical Inputs
- 3 coax. Inputs
- 1 USB Input (B type)
- 1 stereo analog. Output
- 1 optical Output
- 1 coax. Output

Datas:

- Frequency response: 20 Hz - 20 kHz (± 0,1 dB)
- THD at 1 Khz, 0 dBF: <0,001% 24 bits
- Signal/noise ratio: 123dB
- Dynamic: 123dB
- Output level: 2.5 V_{RMS}

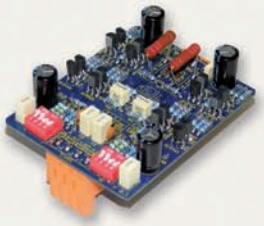
PHONO PREAMPLIFIER

ATOLL proposes a complete line of Phono boards which can be mounted on all IN & PR models (except IN30) and also an external Phono box.

Phono boards:
(Suitable with IN & PR of our Reference and Prestige line)

P50
(for MM cartridge)

P100
(for MM or MC cartridge)



- Symmetrical stage with discrete components
- MM/MC setup

PHONO BOX:

P200

- Symmetrical stage with discrete components
- MM/MC setup
- Audio class MKP capacitors
- Separated power supply

TECHNICAL FACTS	IN 30	IN50 SE	IN80 SE	IN100 SE	IN 200	PR100 SE	PR200 SE	PR 300	AM 50SE AV 50	AM 80SE AV 80	AM 100SE AV 100	AM 200	AV 500	CD 30	CD50 SE	CD80 SE	CD100 SE	CD200 SE	DVD SACD 200	TU 80	PR 5.1
Power Wrms/channel/8 Ω	50 W	50 W	80 W	100 W	120 W	-	-	-	50 W (*)	80 W (*)	100 W (*)	200 W (*)	2*100 W 2*80 W	-	-	-	-	-	-	-	-
Power Wrms/channel/4 Ω	70 W	70 W	120 W	140 W	200 W	-	-	-	70 W	120 W	140 W	200 W	2*140 W 2*120 W	-	-	-	-	-	-	-	-
Impulse power	90 W	90 W	150 W	180 W	300 W	-	-	-	90 W	150 W	180 W	300 W	150 W	-	-	-	-	-	-	-	-
Power supply	170	170	340	660	670	170	340	340	170	340	660	670	660	15+5	15+5	15+5	15+ 170	15+ 170	30+ 160	15	15+ 160
Total capacity(µF)	20 000	20 000	30 000	30 000	62 000	15 000	30 000	62 000	15 000	30 000	30 000	62 000	73 000	14 000	14 000	17 000	17 000	17 000	25 700	11 000	20 000
Number of inputs	4 + 1 Monitor (stereo)								AM: 2 AV: 3			2	5	-	-	-	-	-	-	-	8 stereo 3 video
Input impedance (kΩ)	220	220	220	220	220	220	220	220	47	47	47	220	47	-	-	-	-	-	-	-	100
Sensitivity (mV)	280	100	100	100	350	450	500	500	1.25 V	1.58 V	1.77 V	1.77 V	1.77 V	-	-	-	-	-	-	-	500
Rising time	3 µs	3 µs	2.5 µs	2.5 µs	2.5 µs	1.3 µs	1.3 µs	1.3 µs	1.5 µs	1.4 µs	1.3 µs	1.3 µs	1.3 µs	2 µs	2 µs	2 µs	1.5 µs	1.5 µs	1.5 µs	2.5 µs	1.5 µs
Bandwidth (-3 dB)	5 Hz- 100 kHz	5 Hz- 100 kHz	5 Hz- 100 kHz	5 Hz- 100 kHz	5 Hz- 100 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 200 kHz	5 Hz- 20 kHz	5 Hz- 20 kHz	5 Hz- 20 kHz	5 Hz- 20 kHz	5 Hz- 20 kHz	5 Hz- 48 kHz	5 Hz- 20 kHz	5 Hz- 100 kHz
Output level	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5 V	2.5 V	2.5 V	2.5 V	2.5 V	2.4 V	2 V	-
Signal/noise	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	105 dB	105 dB	105 dB	105 dB	105 dB	125 dB	123 dB	75 dB	100 dB
Distorsion at 1kHz	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.005 %	0.005 %	0.005 %	0.05 % /10W	0.05 % /10W	0.05 % /10W	0.005 % /10W	0.05 % /10W	0.002 %	0.002 %	0.002 %	0.002 %	0.002 %	0.005 %	0.2 %	0.005 %
Dimensions	440 x 90 x 280 mm																				
Weight (kg)	4	7	8	10	11	7	8	9	7	8	10	11	11	4	5	5	7	8	8	8	9

(*) All stereo power amplifiers are mono block bridgeable: respective power are x 2.5.

FINISH:

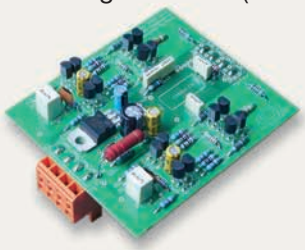
Possible finish for Reference and Prestige series.

Black

Silver

DIGITAL SPDIF BOARD:

Internal board compatible with uncompressed digital stream (24 bits/96kHz).



This board is available for all IN & PR of Reference and Prestige series.

REMOTE CONTROL:

The optional remote control is available for IN30, IN50SE, IN80SE, IN100SE, PR100SE, PR200SE and Tuner.

It is on serial with IN200, PR300, PR5.1 and with all CD players.

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Dealer's stamp

Our mission: to let the vastest amount of people possible discover the fascinating universe of hi-fi sound through exceptional product lines which combine musicality and sobriety.